

SUSOV, I.; STEFANOV, A.

Using sodium silicate solution for softening intestine sausage casing. Mias. ind. SSSR. 30 no.4:38 '59. (MIRA 12:12)

1. Moskovskiy myasokombinat.
(Moscow--Sausage casings)

ROMADINA, V.; STEFANOV, A.

Histological method of determining the freshness of meat and
corned beef. Mias. ind. SSSR. 30 no.4:46-48 '59.
(MIRA 12:12)

1. Moskovskiy myasokombinat.
(Meat inspection) (Histochemistry)

STEFANOV, A.; SUSOV, I.

Using a sodium silicate solution for treating preserved intestines.
Mias.ind.SSSR 31 no.3:51 '60. (MIRA 13:9)

1. Moskovskiy myasokombinat.
(Moscow--Sausage casings)

ALEKSEYEV, N.; KRASNOBAYEV, I.; STEFANOV, A.

Sodium silicate as a disinfectant of premises for housing
cattle before slaughter. Mias. ind. SSSR 31 no.4:49 :60.

(MIRA 14:7)

(Sodium silicate)

(Slaughtering and slaughterhouses--Disinfection)

KUKHARKOVA, L.L., starshiy nauchnyy sotrudnik; BOYARSHINOV, P.K.,
kand. veterinarnykh nauk; IL'YASHENKO, M.A., kand. veterinarnykh
nauk; STEFANOV, A.V.

Development of the method for the disinfection of leather and
fur raw materials from animals affected by listeriosis.
Trudy VNIIMP no.13:64-69 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy
promyshlennosti (for Kukharkova, Boyarshinov, Il'yashenko).
2. Starshiy bakteriolog Moskovskogo mesnogo kombinata (for
Stefanov).

CHIRYATNIKOV, V.I., starshiy nauchnyy sotrudnik; LEVINA, L.I., starshiy nauchnyy sotrudnik; BUSHKOVA, L.A., mladshiy nauchnyy sotrudnik; STEFANOV, A.V., starshiy veterinarnyy vrach-bakteriolog; SHIRYAYEVA, V.M., starshiy veterinarnyy vrach-bakteriolog; SOLOV'YEVA, O.T., veterinarnyy vrach-bakteriolog; BOLDOVA, A.K., inzh.

Aging of cured meat in large containers. Trudy VNIIMP
no.12:58-70 '62. (MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Chiryatnikov, Levina, Bushkova).
2. Moskovskiy myasokombinat (for Stefanov, Shiryayeva, Solov'yeva, Boldova).

PAL'MIN, V.V.; TETERNIK, D.M.; AVSYUKEVICH, V.S.; ASLANOV, V.G.; GOL'DMAN,
Ye.I.; ZEL'MANOV, I.S.; STEFANOV, A.V.; KHOLODOVA, O.S.

Studying the possibility of applying preslaughter adrenal treatment
in the meat industry. Izv.vys.ucheb.zav.; pishch.tekh. no.1:66-71
'63. (MIRA 16:3)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy
promyshlennosti i Moskovskiy myasokombinat.
(Adrenalin) (Slaughtering and slaughterhouses)

STEFANOV, B.

Bulgarian radiotelegraph operators during the Battle of Drava. p.5.
(Radio Vol. 4, no. 3, 1955, Sofiya)

SO: Monthly List of East European Accessions, (REAL). LC, Vol. 4, No. 11,
Nov. 1955, Uncl.

STEINER, B.

"Some Interpretations of the Problem of the Struggle for Existence," p. 339. (GORSKO STOPANSTVO, V 1. 9, no. 8, Oct. 1953, Sofiya, Bulgaria.)

So: Monthly List of East European Accessions, Vol. 3, No. 5, May 1954/Unclassified

SESTAKOV, V.; JACQUE, J.

"Attempt at turning science and practical work toward the time of the primitive man; a criticism of an article."

p. 21 (Gorsko Stapanstvo, Vol. 14, no. 4, 1953, Sofia, Bulgaria)

Monthly Index East European Accessions (EEAI) LC, Vol. 7, No. 9,
September 1958

VETROV, Yu.A.; STEFANOV, B., red.; MINEVICH, I., tekhn. red.

[Earthmoving machinery] Zemleroinye mashiny. Kiev, Gos-
tekhizdat Ukrainy, 1952. 205 p. (MIRA 16:7)
(Earthmoving machinery)

STEFANOV, Boris, akad.

Variability of organisms, and possibilities of controlling
the process of new form development. Pt. 1. Selskostop
nauka 3 no. 1:5-18 '64.

STEFANOV, B.

The Varotron electron tube. Fiz mat spisanie BAN 6 no.1:60 '63.

STEFANOV, B.

"The Hard Seeds of Leguminous Plants." p.3 (Izvestiia, Vol.2, 1951,Sofiya).

SO: Monthly List of East European Accessions, Vol. 3 No.3, Library of Congress,
March, 1954 Uncl.

STEFANOV, B. : GANCHEV, P.

Results from one case of natural cross-pollination of Salix viminalis L.
and Salix cinerea L. p. 129

GORSKO STOPANSTVO. Vol. 12, No. 3, Mar. 1956

Sofia, Bulgaria

So. East European Accessions List

Vol. 5, No. 9

September, 1956

COUNTRY : BULGARIA
 CATEGORY : Cultivated Plants. Cereals. R
 ABS. JOUR. : RZhBiol., No.23, 1958, No.104598
 AUTHOR : Stefanov, B., Razsolkova, Ye., Tsikova, Ye.
 INST. : -
 TITLE : Results of Some Studies on Determination of the Influence
 of Pre-Sowing Soaking of Seeds on Their Germination.
 ORIG. PUB. : Izv. in-ta za gerat. Bulg. AN, 1957, 2, 245-307
 ABSTRACT : A delay in germination has been observed with the treatment
 of corn seeds by means of pre-planting soaking in 3% solu-
 tion of KBr for 3 hours and those of rice for 48 hours.
 With soaking in a weak solution of KBr, the delay in ger-
 mination is considerably less, the process runs its course
 almost identically as with the pre-planting soaking in
 distilled water. With the prolonged soaking of rice seeds
 for 7 days in 3 and 10% solution of NaCl and 3% KBr, a
 retarded germination has been observed. With such compar-
 atively long process of soaking the seeds, sugar, proteins

Card: 1/2

Материалы, серия

Physical bases and principle of action of magnetohydrogenerators.
File mat. spetsial. EAN 7 no.2:90-97 Vol.

STEFANOV, Boris, kand. na tekhn. nauki

Magnetohydrodynamic generators. Priroda Bulg 13 no.4:87-90
Jl-Ag '64.

L 52646-65 EPA(s)-2/EPF(c)/EEC(k)-2/EPF(n)-2/EWG(m)/EPA(w)-2/T/ENP(t)/EPA(bb)-2/
EWP(b)/EWA(h) Pz-6/Pab-10/Pr-4/Pt-7/Peb/Pu-4 IJP(c) RWH/JHB/JD/TT/WW/JG/AT
ACCESSION NR: AP5013550 BU/0011/65/018/001/0015/0018

AUTHOR: Orlinov, V.; Stefanov, B.; Zarkova, L.; Konstantinov, E.

TITLE: High-pressure cesium thermionic converter with a tungsten cathode

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 1, 1965, 15-18

TOPIC TAGS: high pressure thermionic converter, cesium thermionic converter, thermionic converter, cesium vapor, cesium pressure, low voltage arc, arc mode

ABSTRACT: A brief description is given of three series of experiments with a cesium thermionic converter using a tungsten wire cathode, an interelectrode spacing of 0.3 mm, and a cylindrical nickel anode. At $T_c = 1950K$ and $t_{Cs} = 260C$, the maximum power w_{max} was 2.77 w/cm² at $U_T = 1.10$ v, and the efficiency η was 9.35%. When voltage was increased, w_{max} and η increased, respectively, from 4 w/cm² and 9.7% to 7 w/cm² and 16.6%. At $T_c = 2000K$ and $t_{Cs} = 340C$, w_{max} was 16 w/cm² and η was 24%. In this latter case, the characteristic was typical of volume ionization, and a comparison with theoretical data revealed that the value of the emf was determined by plasma processes, the electrode properties having a negligible influence. The experiments were made with the use of an improved version of a previously described converter (Orlinov, V., L. Zarkova, and E. Konstantinov, Compt. Rend. Acad. Bulg.

Card 1/2

L 52646-65

ACCESSION NR: AP5013550

Sci, 16, 5, 1963, 493). The low specific power and efficiency of the original model were attributed to a large electrode spacing (2.5—3 mm) and low cesium pressure (below 0.6 mm Hg). The authors hope to obtain better results by further increasing the cesium temperature and optimizing the temperature of the cathode. Orig. art. has: 4 figures. [ZL]

ASSOCIATION: Institute of Electronics, Bulgarian Academy of Science

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 002

OTHER: 003

ATD PRESS: 4012

Card

2/2

STEFANOV, B. D., Dr. Bio Sci -- (diss) "The effect of the sympathetic nervous system on the functional state of injuries to the central nervous system," Moscow, 1960, 22 pp, 250 cop. (Physiology Laboratory, AS USSR) (KL, 42-60, 112)

SHPIL'RAYN, E.E.; STEFANOV, B.I.

Apropos of L.A. Brovkin's article "Effect of an increase in the measurable mean temperature and the heat content of certain insulated bodies in the process of temperature balancing.

Inzh.-fiz. zhur. 5 no.6:126-131 Je '62. (MIRA 15:12)

(Temperature--Measurement)

(Enthalpy)

(Brovkin, L.A.)

L 34112-66 EWT(m)/EWP(t)/ETI LJP(c) JD/LW/JG
 ACC NR: AP6008835 SOURCE CODE: UR/0294/66/004/001/0141/0142
 AUTHOR: Stefanov, B. L.; Timrot, D. L.; Tot'skiy, Ye. Ye.; Chu Wen-hao 63
 ORG: Scientific-Research Institute of High Temperatures (Nauchno-issledovatel'skiy institut vysokikh temperatur) 16
 TITLE: Experimental investigation of the viscosity and thermal conductivity of sodium and potassium vapors 21
 SOURCE: Teplofizika vysokikh temperatur, v. 4, no. 1, 1966, 141-142
 TOPIC TAGS: sodium, potassium, vapor, heat conductivity, viscosity
 ABSTRACT: The NII of High Temperatures (NII vysokikh temperatur) during the period of 1960—1964 performed experimental investigations of the viscosity and heat conductivity of sodium and potassium vapors. The results of the measurements and extrapolation of viscosity were discussed in detail earlier (D. L. Timrot, B. L. Stefanov. Nauchnyy otchet NII vysokikh temperatur, 1962). An experimental investigation of heat conductivity was performed by the dilatometric method, developed by the present authors, and described elsewhere. In accordance with this method, the temperature difference between two coaxial cylindrical surfaces is measured according to the difference of the thermal expansion of the cylinders. Measurements of the degree of blackness are performed on the same apparatus in the intervals between the series of heat conductivity measurements. The error for radiation reaches 35—70% of the total heat flux in tests with sodium and 50—80% with potassium. The maximum relative error
 UDC 546.32+546.33:533.16+536.2.022
 Card 1/2

STEFANOV, Boris, akad.

Variability of organisms, and possibilities of controlling
the process of new form development. Pt. 2. Selskostop nauka
3 no. 2:3-17 '64.

STEFANOV, Boris Vladimirovich, kandidat tekhnicheskikh nauk; LYUBOVSKIY, A.,
redaktor; IOAKIMIS, A., tekhnicheskiiy redaktor.

[Organization of production in plants manufacturing precast reinforced
concrete] Organizatsiia proizvodstva na zavodakh sbornogo zhelezobete-
na. Kiev, Goz.izd-vo lit-ry po stroit. i arkhitekt. USSR, 1956. 248 p.
(MLRA 10:4)

(Precast concrete)

STEFANOV, Boris Vladimirovich; DANILKINA, I., red.; OSOVSKAYA, I., red.;
ZELENKOVA, Ye., tekhn.red.

[Booklet for master workers on making precast reinforced concrete]
Pamiatka мастера po sbornomu zhelezobetonu. Kiev, Gos.izd-vo lit-ry
po stroit. i arkhit.USSR, 1959. 200 p. (MIRA 12:9)
(Precast concrete)

KALISHUK, Aleksandr Luk'yanovich, kand. tekhn. nauk, dots.;
TRET'YAKOV, Lev Dmitriyevich, kand. tekhn. nauk, dots.;
STEFANOV, Boris Vladimirovich, kand. tekhn. nauk, dots.;
NOVGOMODSKIY, Mikhail Avramovich, st. prepod., kand.
tekhn. nauk; ANTONENKO, Grigoriy Yakovlevich, assistant;
RUSANOVA, Nina Georgiyevna, assistant; SIKORSKIY, Oleg
Nikolayevich, assistant; ALEKSANDROVSKIY, A.Ya., red.

[Manual on the manufacture of precast reinforced concrete]
Spravochnik po proizvodstvu sbornogo zhelezobetona. [By]
A.L.Kalishuk i dr. Kiev, Izd-vo Budivel'nyk, 1964. 345 p.
(MIRA 17:7)

1. Kafedra tekhnologii sbornogo zhelezobetona Kiyevskogo
inzhenerno-stroitel'nogo instituta (for all except
Aleksandrovskiy). 2. Zaveduyushchiy kafedroy tekhnologii
sbornogo zhelezobetona Kiyevskogo inzhenerno-stroitel'nogo
instituta (for Kalishuk).

STEFANOV, Boris Vladimirovich, kand. tekhn. nauk, dots.;
BERGER, K.V., red.

[Technology of concrete and reinforced concrete products]
Tekhnologiya betonnykh i zhelezobetonnykh izdelii. Kiev,
Budivel'nyk, 1965. 388 p. (MIRA 18:8)

STEFANOV, Boris Vladimirovich; ANTONENKO, Grigoriy Yakovlevich;
MIRSAKOV, L.M., retsenzent; POLTORATSKAYA, E.A., red.

[Organization of the technological processes in precast
reinforced-concrete plants] Organizatsiia tekhnologicheskikh
protssessov na zavodakh sbornogo zhelezobetona.
Kiev, Budivel'nyk, 1965. 80 p. (MIRA 19:1)

STEFANOV, D.

Linear receiver 1-V-1. p. 29.

RADIO. Vol. 5, no. 5, 1956

Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of
Congress, Vol. 6, No. 1, January 1957

STEFANOV, DOBRI

Stefanov, Dobri Stroezh na melnitsi; uchebnik za VIII klas na tekhnicheskite gimnazii po melnicharstvo (Sofiya, Narodna prosveta) 1951. 11h p. (Construction of mills; a manual for trade high schools)

SO: Monthly List of East European Accessions, L C, Vol. 3 No. 1 Jan. '54 Uncl.

STEFANOV, D. (Kharmanli)

From my experiments. Mat i fiz Bulg 5 no.4:39-41 J1-Ag '62.

SHERDAKOV, N.I., dotsent; GORYACHEVA, Ye.M., starshiy prepodavatel';
NIKIFOROV, A.F., dotsent; STEFANOV, D., prof.;
TAL'MAN, P.N., dotsent

Discussing general biological problems. Nauch. trudy LTA
no.99:117-120 '62. (MIRA 17:1)

1. Zaveduyushchiy kafedroy dialekticheskogo i istoricheskogo materializma Leningradskoy ordena Lenina lesotekhnicheskoy akademii imeni Kirova (for Sherdakov).
2. Kafedra dialekticheskogo i istoricheskogo materializma Leningradskoy ordena Lenina lesotekhnicheskoy akademii imeni S.M. Kirova (for Goryacheva).
3. Vsesoyuznyy zaochnyy lesotekhnicheskyy institut (for Nikiforov).

1957 NOV, 10.

In the year 1957, the first cosmonaut 6 no. 6110 to,

RJAM

STEFANOV (D.). Sur le dessèchement de l'Orme chez nous et plus spécialement sur le dessèchement des peuplements de l'Orme dans la forêt domaniale 'Longosa'.
[The wilting of Elms in Bulgaria and more especially the wilting of Elm stands in the Longosa State Forest.]—*Gorsko Stopanstvo, Sofia*, 3, 1-2, pp. 6-13, 1 fig., 1947. [Abs. in *Biol. Abstr.*, 22, 9, p. 2244, 1948.]

During the last two or three years the [Dutch] elm disease, *Ceratosomella ulmi*, has killed many elms, especially *Ulmus campestris*, in Bulgaria [*R.A.M.*, 12, p. 252]. In the Longosa State Forest, Varna district, where *U. campestris* comprises 52 per cent. of the stand, some 150,000 cu.m. of timber have been killed, besides about 60,000 cu. m. in other parts of the country.

STEFANOV, DIM

Stefanov, Dim - Lesookhrana za osmi klas na gorskite gimnazii. Sustavili, Dim.
Stefanov, I. Spasov, B. Zashev. Sofiya (Narodna prosveta) 1952. 88 p. (Safety
measures in the forest; a textbook for the eight year in forestry schools)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 9,
Oct. 1953, Uncl.

STEFANOFF, D.
✓

"Forthcoming problems in the preservation of forests.", p 419, (GORSKO STOFANSTVO,
Vol 3, #9, Nov: 1952, Bulgaria)

East European Vol 2, #8
SO: Monthly List of Russian Accessions, Library of Congress, August 1953, Uncl.

STEFANOV, D.

"Science of forestry in the Soviet Union and its influence in Bulgaria; the 150th anniversary of the S.M. Kirov Academy of Forestry in Leningrad." (p.99) PRIRODA (Bulgarska Akademiia Na Naukite) Sofiya Vol 2 No 6 Nov/Dec 1953

SO: East European Accessions List Vol 2 No 6 Aug 1954

STEFANOV, D.

"A Single Method for Preserving the Acorn from Diseases and the Oak Spreuts from Field Rats and Other Root Gnawers." p.26
(GORSKO STOPANSTVO Vol. 9, no. 1, Jan. 1953 Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 9, Oct. 1953, Uncl.

STEPANOV, D.

"Damage to our forests from snow and storms and its prevention" (p.32) GORSKO STOPANSTVO
(Upravlenie Na Gorskoto Stopanstvo Kum Ministerskiiia Suvet) Sofiya Vol 10 No 1 Jan 1954

SO: East European Accessions List Vol 2 No 7 Aug 1954

STEFANOV, D.

"Calamitous insects in Bulgaria during 1943 and measures for combating them in accordance with Soviet science and practice of tree pathology" (4.123) GOSKO STOPANSTVO
(Upravlenie Na Gorskoto Stopanstvo Kom. Ministerstvena Svet) Sofiya Vol 10 No 1 Jan 1954

SO: East European Agriculture List Vol 2 No 7 Aug 1954

AT 100000, ...

"Measures for guarding, protecting forests during the second five-year plan."
Gorsko Stopanstvo, Sofiya, Vol. 10, No. 6, June 1954, p. 241

10: Eastern European Accessions List, Vol. 3, No. 10, Oct. 1954, Lib. of Congress

STEFANOV, D.; KEREMIDCHIEV, M.

Stefanov, D.; Keremidchiev, M. Some basic conditions for reforestation with oak seedlings in the forests of Botev, Stalin, and Dulga stoka, Pomorie. p.367.

Vol. 11, no. 8, Oct. 1955 GORSKO STOPANSTVO Sofiya, Bulgaria

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 2
February, 1956

STEFANOV, D.

STEFANOV, D. Protection of wood from fungus diseases and injurious insects. p.35.

Vol. 5, no. 2, Mar./Apr. 1956, TEKHNKA, SOFIYA, BULGARIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 10, Oct. 1956.

Stefanov, D.

K-1

BULGARIA/Forestry - General Problems.

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10553

Author : Stefanov, D.

Inst : -

Title : The Situation in the Science of Forestry in the German Democratic Republic and Its Tasks.

Orig Pub : Priroda, 1956, 5, No 6, 95-99

Abstract : No abstract.

Card 1/1

STEFANOV, D.

AGRICULTURE

Periodical: NAUCHNI TRUDOVE. Vol. 5, 1957.

STEFANOV, D. Investigations for establishing the most
suitable and cheap methods for fighting
against some important insects in the forests.
p. 97.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 2
February 1959, unclass.

STEFANOV, D.; KEREMIDCHIEV, M.; VUTOV, V.

Investigating the gradations of the gypsy-moth Lymantria dispar L. and lackey moth Malacosoma neustria L. in Bulgaria and their causes. p. 135.

NAUCHNI TRUDOVE. Vissh lesotekhnicheski institut. Sofia, Bulgaria, Vol. 6, 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, No. 1, January 1960.

Uncl.

BULGARIA/General and Systematic Zoology, Insects. Harmful P
Insects and Acarids. Forest Pests.

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11694

Author : Stefanov D.

Inst : -

Title : Control of the Diseases and Pests of the Poplar
in Bulgaria.

Orig Pub : Gorsko stopanstvo, 1958, 14, No 2, 38-42.

Abstract : No abstract

Card : 1/1

STEFANOV, D.

Research on the measures for fighting the root knot nematodes
on tobacco. Izv Inst tiutium BAN 1:183-196 '61.

STEFANOV, Dim.

SURNAME, Given Names

Country: Bulgaria

Academic Degrees: Professor

Affiliation: not given

Source: Sofia, Priroda, Vol X, No 4, July/August 1961, pp 84-87

Data: " A Serious Fir Pest in Bulgaria. "

WFO 981643

STPP-NCV, D. (Varna)

Under the direct management of the Council. Avies kosmonavt
6 no.10:12 '64.

Journal of Management Education 36(7) 809–824

Journal: *Annals of the Entomological Society of America*, vol. 57 no.1:
[1964] 196-198 [1964]

L 2251-66 EWP(e)/EWP(i) WH

ACCESSION NR: AP5009382

Z/0013/65/000/003/0087/0091

AUTHOR: ~~Stefanov, G.~~⁴⁴ (Sofia); ~~Stefanov, D.~~⁴⁴ (Sofia); ~~Bojadzieva, P.~~⁴⁴ (Sofia);
Charizanova, L.⁴⁴ (Sofia)

TITLE: Reaction in the solid phase in a mixture of kaolin and calcium carbonate ^{6,44}

SOURCE: Sklar a keramik, no. 3, 1965, 87-91

TOPIC TAGS: ceramic, porcelain, kaolin, calcium carbonate, solid phase reaction, reaction mechanism, first endothermic effect, first exothermic effect, kaolinite, limestone, porcelain paste

ABSTRACT: The authors review the results of investigations which have already been made of the ternary system $\text{CaO} - \text{Al}_2\text{O}_3 - \text{SiO}_2$, important for the formation of ceramic pastes with the crystalline component of anorthite, in order to explain the mechanism of anorthite formation. It has been shown that the reaction depends on the dehydration of kaolinite, but the direct product of this reaction has not been determined. Neither has it been established when and how this synthesis proceeds, nor what the connection is between the intermediate phase and anorthite. This study attempts to answer these questions and to explain the reaction between

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ACCESSION NR: AP5009382

kaolinite and calcium carbonate in the molar ratio of 1:0 to 1:2 in the temperature region of the first endothermic and first exothermic effect of kaolinite. Kaolinite from the region of Stachanovo and limestone from the region of Ogujanovo served as the experimental materials. The limestone was ground in a porcelain mill. Eight mixtures of the components were prepared for studying the reaction between kaolinite and limestone. It is concluded that gehlenite is the first stage to be formed when the experimental mixtures are heated to 600°C; anorthite appears as the first exothermic effect of kaolinite, and the described reaction mechanism is in agreement with the Brindley and Nakahir theory concerning the gradual change of kaolinite into the kaolinite - spinelmullite series. Orig. art. has: 9 tables, 10 figures, and 5 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 001

OTHER: 015

ci

Card

2/2

L 23315-66

ACC NR: AT6004210

SOURCE CODE: BU/2503/65/013/001/0185/0192

AUTHOR: Stefanov, D.; Danchev, Iv.; Yanachkova, Iv.; Petrov, P.;
Ivanov, S.; Dzhogiev, D.; Bizheva, L.

ORG: none

TITLE: X-Ray structural studies of thermistors obtained from the
three-component systems $\text{MnO}_2\text{-Ni}_2\text{O}_3\text{-Co}_2\text{O}_3$ and $\text{MnO}_2\text{-Ni}_2\text{O}_3\text{-ZnO}$

SOURCE: Bulgarska akademiya na naukite. Fizicheski institut. Iz-
vestiya na Fizicheskiya institut s ANEB, v. 13, no. 1, 1965, 185-192

TOPIC TAGS: thermistor, spinel, mineral, x ray investigation

ABSTRACT: Thermistors baked at a temperature of 1150C, which have
been studied in detail in earlier papers are the object of detailed
X-ray structural investigations. The X-ray structural data obtained
have shown that after baking new chemical compounds are formed of
the type of spinels. According to the chemical composition of the
mixtures studied, different spinels are formed. The cubic spinel

Card 1/2

L 23315-66

ACC NR: AT6004210

NiMn_2O_4 has been established for the mixture I and for the two oxide
systems. The intermediary mixtures, II to V included, are repre-
sented by cubic spinels of a variable cation composition. Mixture
VII is represented by the tetragonal spinels CoMn_2O_4 and ZnMn_2O_4 .
On the basis of data from the literature on the position of the
metal cations in NiMn_2O_4 and CoMn_2O_4 an attempt has been made to
elucidate the distribution of the cations in the spinel structures
of thermistors studied by the authors. Orig. art. has: 3 figures
and 2 tables. [Based on author's abstract]

SUB CODE: 09, 07/SUBM DATE: none

ORIG REF: 002/

SOV REF: 004/

Card 2/2

L 23316-66

ACC NR: AT6004211

SOURCE CODE: BU/2503/65/013/001/0193/0200

AUTHOR: Yanachkova, Iv.; Danchev, Iv.; Petrov, P., Stefanov, D.;
Ivanov, S.; Dzhoglev, D.; Bizheva, L.

ORG: none

TITLE: Influence of impurities on the semiconductor properties of
thermistors composed of $MnO_2-Co_2O_3-Ni_2O_3$

SOURCE: Bulgarska akademiya na naukite. Fizicheski institut. Iz-
vestiya na Fizicheskiya institut s ANEB, v. 13, no. 1, 1965, 193-200

TOPIC TAGS: thermistor, electric property, resistor, semiconductivity

ABSTRACT: Heat-sensitive resistors with a negative temperature co-
efficient are obtained from metal oxides in a ratio of $MnO_2-60\%$,
 $Co_2O_3-29.7\%$ and $Ni_2O_3-1.3\%$. The oxide mixture is doped with solu-
tions of Li_2CO_3 , $Cu(NO_3)_2$, $CsCl$, $CeCl_3$, $Ce(SO_4)_2$ compounds of con-
centrations of the order of 10^{-6} , 10^{-5} , 10^{-4} , 10^{-3} , 10^{-2} , 10^{-1} ,
100wt % of the metal activator. The obtained mixture is wet-milled

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L 23316-66

ACC NR: AT6004211

dried at 80C and then dry-milled again. The electrical properties of the thermistors obtained by pressing, sintering at 1150C and again at 120C for 200 hours are investigated. By increasing the concentration of the activator the resistance R_{20} of the samples activated by Li^+ and Cu^{2+} decrease from the order of 1 to 3.5, while the R_{20} of those activated with Cs^+ , Ce^{3+} and Ce^{4+} showed no significant changes. The thermistors have a temperature coefficient α_{20} . The X-ray investigation indicated a new phase in the form of tetragonal spinel CoMn_2O_4 . No structural changes were produced by small amounts of activators. Orig. art. has: 2 figures and 4 tables. [Based on author's abstract]

SUB CODE: 09/ SUBM DATE: none ORIG REF: 002/ SOV REF: 001/
OTH REF : 004/

Card 2/2 *LC*

L 32213-66 EWP(+)/ETI LJP(c) JD
 ACC NR: AP6020810 SOURCE CODE: BU/0011/65/018/006/0525/0528
 AUTHOR: Ivanov, S.; Djoglev, D.; Stefanov, D.; Danchev, I.; Petrov, P.; Janachkova, I.; Bizheva, L.
 ORG: Institute of Physics, BAN
 TITLE: Some properties of thermistors made of three-compound oxide systems
 SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 6, 1965, 525-528
 TOPIC TAGS: thermistor, semiconductor research, admixture, x-ray analysis
 ABSTRACT: Thermistors are usually made of oxide mixtures (see, e.g., N. P. Potapov, Tr. Odessk. gidro-meteorol. i-ta, 37, 1956, No. 8; M. Ya. Kushnerev, V. P. Linde, S. Z. Roginskiy, FTT, III, 1961, No. 2, 384). The present paper describes the production of three-component $MnO_2-Ni_2O_3-CO_2-O_3$ and $MnO_2-Ni_2O_3-ZnO$ systems whose properties may be altered by small admixture activation. In addition to the Volt-Ampere and temperature characteristics of the system, the authors present also comprehensive results of X-ray structural analysis of the various semiconductors produced and the distribution of metallic admixtures within the spinel structures. This paper was presented by Academician G. Nadjakov on 23 February 1965. Orig. art. has: 2 figures and 2 tables. Orig. art. in German JPRS
 SUB CODE: 09, 07/ SUBM DATE: 23Feb65 / ORIG REF: 004/ SOV REF: 003
 Card 1/1

STEFANOV, D.

Section of the Union of Scientific Workers of Bulgaria was
founded in Turnovo. Nauch zhivot 7 no.4:24 O-D '64.

STEFANOV, V.

"In the Lenin Metallurgic Plant." p. 3,
(ZDRAVEN FRONT, No. 40, Oct. 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (EML), LC, Vol. 4
No. 5, May 1955, Uncl.

STEPANOV, G. ; L'KASHEV, L.

"Condition of the standardization in the production of porcelain electric insulators."

p. 38 (Ratsionalizatsiia, Vol. 7, no. 12, Dec. 1957, Sofia, Bulgaria.)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958.

STEFANOV, G.

"Investigation of native pegmatite in view of replacing the feldspar in the porcelain-faience industry."

LEKA PROMISHLENCST., Sofia, Bulgaria., Vol. 8, No. 2, 1959

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), LC, Vol. 8, No. 7, July 1959, Unclass

MANOLOV, L.; STEFANOV, G.

Result of prevention of seasonal exacerbation of peptic ulcer.
Suvren. med., Sofia 7 no.5:68-71 1956.

1. Iz medikosanitarnata chast pri metalurgichnii zavod Lenin
(Gl. lekar: G. Stefanov).
(PEPTIC ULCER, therapy,
prev. of seasonal exacerbation (Bul))

STEFANOV, G.

On arterial oscillometry in 6 cases of aortic coarctation. Suvrem med.,
Sofia no.7-8:151-155 '60.

L. Iz IV ob. gr. bolnitsa, Sofiia (Gl. lekar P.Genov)
(AORTIC COARCTATION diag)
(OSCILLOMETRY)

STEFANOV, G.

Electrocardiographic changes in 620 aged subjects. Suvr. med.
13 no.5:26-30 '62.

(GERIATRICS) (ELECTROCARDIOGRAPHY)

STEFANOV, G.

More care for Jacquard weaving.

F. 33, (Lika Promishlenost) Vol. 6, no. 2, 1957, Sofia, Bulgaria

SO: Monthly Index of East European Accessions (EEAI) Vol. 6, No. 11 November 1957

STEFANOV, Georgi

Testing, installing and maintaining cotton looms. Tekstilna prom
10 no.5:34-36 '61.

1. Glaven desenator pri Durzhavno industrialno predpriatie
"Malchika".

STEFANOV, Georgi, Doktor.

Electrocoagulation in diseases of the cervix. Izv.med.inst.
Sofia 11-12:721-737 1955.

Spetsialna akushero-ginekologichna bolnitsa Rosa Dimitrova
(glaven lekar: doktor Georgi Stefanov) gr.Stalin.

(CERVIX, UTERIEN, diseases,
ther.,electrocoagulation)

(DIATHERMY, invarious diseases,
electrocoagulation in cervical dis.)

STEFANOV, Georgi, inzh.

A pneumatic device for edge veneering. Durvombel prom 6 no.4:
39-42 JI-Ag '63.

1. Zav. tekhn. progres pri DIP "Republika", Pleven.

STEFANOV, G.

STEFANOV, G. Linear correlation. p.43.

Vol. 3, no. 3/4, 1956, STROITELSTVO, SOFIYA, BULGARIA.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, no. 10,
Oct. 1956.

STEFANOV, G.

STEFANOV, G. Quick graphic method for determining slopes. p. 16. Vol. 3,
no. 8, 1956. STROITELSTVO. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol 6, No. 4--April 1957

STEFANOV, G.

Changes of Bulgarian State BDS 676-51 Standards concerning structural soils;
classification. p. 40.

RATSIONALIZATSIIA. Vol. 6, no. 5, May 1956

Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Library of
Congress, Vol. 6, NO. 1, January 1957

STEFANOV, G.

"Suggestions for changing the Bulgarian state standards for determining the physical properties of soils for construction."

p.44 (Ratsionalizatsiia, Vol. 7, no. 2, Feb. 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

STEFANOV, G.; KATENCOV, B.

"National Conference on Soil Mechanics in Czechoslovakia."

STROITELSTVO., Sofia, Bulgaria., Vol. 6, No. 1, 1959

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), IC, Vol. 8, No. 7, July 1959, Unclas

STEFANOV, Georgi, prof. inzh.

Designing of ground foundations for buildings and industrial structures. Spetsialnoye 9 no.3:2-6 My-Je '62.

STEFANOV, Georgi, prof. inzh.

The 5th International Congress of the International Society of
Soil Mechanics and Foundation Engineering. Stroitelstvo 9
no. 5:28-32 S-O '62.

STEFANOV, G., prof. inzh.; TOSHKOV, E., st. n. sutr.

"Vibration analysis and design of foundations for machines and turbines" by Alexander Major. Reviewed by G. Stefanov and E. Toshkov. Stroitelstvo 10 no. 2:31-32 Mr-Apr '63.

L 1634-66 EWP(t)/EWP(b) DIAAP/IJP(c) JD/JG

ACCESSION NR: AP5324262

CZ/0043/64/000/009/0661/0668

45
41
13

AUTHOR: Stefanov, G. (Sofia); Nenov, N. (Sofia); Tomov, T. (Sofia); Zivkov, Z. (Zhivkov, Zh.) (Sofia); Georgiev, N. (Georgiyev, N.) (Sofia); Popov, C. (Popov, Kh.) (Sofia); Michajlov, M. (Mikhaylov, M.) (Sofia); Tolgyessy, J. (Tel'deshi, Yu.) (Engineer, Docent, Candidate of sciences) (Bratislava)

TITLE: Determination of gold in mineral raw materials by means of the neutron activation analysis

SOURCE: Chemicke zvesti, no. 9, 1964, 661-668

TOPIC TAGS: gold, analytic chemistry, silicate, radiation spectrometer, radiometer, radiation chemistry, neutron irradiation, neutron flux, neutron

Abstract [Authors' German summary, modified]: A method is presented of determining gold in samples of silicates by means of the neutron activation method. Samples were irradiated in a nuclear reactor by a flux of neutrons of $2.4 \times 10^{13} \text{ n by cm}^{-2} \text{ by s}^{-1}$. The induced activity was measured by a 400-channel scintillation γ spectrometer or a B-2 radiometer. It is possible to determine gold in ore and non-ore raw materials up to the volume of 2.8×10^{-10} grams. Orig. art. has 2 graphs and 3 tables.

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L 1634-66

ACCESSION NR: AP5024262

4
ASSOCIATION: [Stefanov, Nenov, Tomov, Zivkov, Georgiev, Popov, Michajlov] Naucno
izsledovatel'ski geologiceski institut pri Glavno upravlenie po geologija i ochrana
na zemnite nedra, Laboratorja aktivacionen analiz, Sofia (Activation Analysis
Laboratory, Scientific Research Institute of Geology, Main Administration for
the Geology and Protection of Mineral Resources) 55 [Tolgyesov] Katedra radiochemie
a radiacnej chemie Slovenskej vysokej skoly technickej, Bratislava (Slovak Institute
of Technology, Department of Radiochemistry and Radiation Chemistry) 55

SUBMITTED: 23Jan64

ENCL: 00

SUB CODE: GC, NP

NO REF SOV: 004

OTHER: 007

JPRS

KC
Card 2/2

L 2251-66 EWP(e)/EWP(i) WH

ACCESSION NR: AP5009382

Z/0013/65/000/003/0087/0091

AUTHOR: Stefanov, G.⁴⁴ (Sofia); Stefanov, D.⁴⁴ (Sofia); Bojadzieva, P.⁴⁴ (Sofia);
Charizanova, L.⁴⁴ (Sofia)

TITLE: Reaction in the solid phase in a mixture of kaolin^{6,44} and calcium carbonate

SOURCE: Sklar a keramik, no. 3, 1965, 87-91

TOPIC TAGS: ceramic, porcelain, kaolin, calcium carbonate, solid phase reaction, reaction mechanism, first endothermic effect, first exothermic effect, kaolinite, limestone, porcelain paste

ABSTRACT: The authors review the results of investigations which have already been made of the ternary system $\text{CaO} - \text{Al}_2\text{O}_3 - \text{SiO}_2$, important for the formation of ceramic pastes with the crystalline component of anorthite, in order to explain the mechanism of anorthite formation. It has been shown that the reaction depends on the dehydration of kaolinite, but the direct product of this reaction has not been determined. Neither has it been established when and how this synthesis proceeds, nor what the connection is between the intermediate phase and anorthite. This study attempts to answer these questions and to explain the reaction between

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L 2251-66

ACCESSION NR: AP5009382

kaolinite and calcium carbonate in the molar ratio of 1:0 to 1:2 in the temperature region of the first endothermic and first exothermic effect of kaolinite. Kaolinite from the region of Stachanovo and limestone from the region of Ogujanovo served as the experimental materials. The limestone was ground in a porcelain mill. Eight mixtures of the components were prepared for studying the reaction between kaolinite and limestone. It is concluded that gehlenite is the first stage to be formed when the experimental mixtures are heated to 600°C; anorthite appears as the first exothermic effect of kaolinite, and the described reaction mechanism is in agreement with the Brindley and Nakahir theory concerning the gradual change of kaolinite into the kaolinite - spinelmullite series. Orig. art. has: 9 tables, 10 figures, and 5 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 001

OTHER: 015

Card 2/2

L 38937-66 EWP(t)/RTI JD
 ACC NR: AP6029722- SOURCE CODE: CZ/0043/65/000/012/0918/0924 34B

AUTHOR: Nenov, Nedjalko (Sofia); Popov, Christomil--Popov, Kh. (Sofia);
 Tomov, Trifon (Sofia); Stefanov, Georgij (Sofia); Tolgyessy, Juraj--Tel'deshi, Yu.
 (Docent; Engineer; Candidate of sciences; Bratislava)

ORG: [Nenov; Popov; Tomov; Stefanov] Laboratory for Activation analysis, Geological
 Research Institute, Main Administration of Geology and Protection of the Earth's
 Minerals; [Tolgyessy] Department of Radiochemistry and Radiation Chemistry, Slovak
 Technical University, Bratislava (Katedra radiochemie a radiacnej chemie Slovenskej
 vysokej skoly technickej)

TITLE: Nondestructive determination of As^{19} in ores and minerals containing high
 amounts of Mn by means of neutron activation analysis

SOURCE: Chemicke zvesti, no. 12, 1965, 918-924

TOPIC TAGS: neutron radiation, analytic chemistry, gamma spectrometer, scintillation
 spectrometer

ABSTRACT: The authors describe a method that may be used in the presence of above
 1% of Mn without subjecting the sample to a radiochemical treatment; the samples
 are irradiated for 20 minutes by a stream of neutrons in a nuclear reactor. They
 are left standing for 70 hours so that interfering radiocompounds would be
 decomposed, and then As is determined by using a 400 channel scintillation gamma
 spectrometer. Sensitivity is $5 \cdot 10^{-6}$ grams, accuracy $\pm 15\%$. Orig. art. has:
 2 figures and 3 tables. [JPRS: 34,669]

SUB CODE: 07 / SUBM DATE: 03Jun65 / ORIG REF: 001 / SOV REF: 001 / OTH REF: 007
 Card 1/1 0918 0201

TOLGYESSY, Juraj, doc. inz. CSc.; PETKOV, Christomil Petkov; STEFANOV,
Georgi Ivanov; TOMOV, Trifon Tomov, inz.

Nondestructive determination of indium in intermetallic alloys
by neutron activation in using Po^{210} neutron source. Chem zvesti
18 no.1:42-55 '64.

1. Nauchno izsledovatel'ski geologicheski institut pri Glavno upravlenie po geologiya i okhrana na zemnite nedra, Laboratoriia aktivatsionen analiz, Sofia (for all except Togyessy).
2. Katedra radiochemie a radiacnej chemie, Slovenska vysoka skola technicka, Bratislava (for Togyessy).

STEFANOV, G.V.; PROTOPOPOV, V.P.

Sinking reinforced concrete wells using hydraulic earth removal
with the aid of centrifugal pumps. Rats. i izobr. predl. v stroi.
no.3:115-117 '57. (MIRA 11:1)
(Wells) (Centrifugal pumps) (Excavation)

STEFANOV, I.

" For fuller utilization of the available machinery in the September 9
State Shoe Factory."

LEXA PERCHISHEVETS, Sofia, Bulgaria, Vol. 8, No. 3, 1959

Monthly list of EAST EUROPEAN ACCESSIONS INDEX (EEAI), Library of Congress,
Vol. 8, No. 8, August, 1959

STEFANOV, I., inzh.

The control and measuring instruments and equipment for the
sewerage purifying apparatus and the studies of water.
Khidrotekh i melior 9 no.7:222-223 '64.

616.921.5

RUMANIA

BRONITKI, A., BARBU, Cornelia, POPESCU, Ana, MOISA, I., MALIAN, A., BADESCU, Doina, and STEFANOV, I., of the Institute of Inframicrobiology (Institutul de Inframicrobiologie) of the Academy of the Socialist Republic of Rumania (al Academiei Republicii Socialiste Romania).

"Laboratory Investigations of the Influenza Epidemic of January-February 1966 in Bucharest."

Buchares, Studii si Cercetari de Inframicrobiologie, Vol 17, No 5, 66, pp 365-370.

Abstract: During the epidemic, the authors isolated 14 strains of type B influenza viruses. In an analysis of 200 human sera during the pre-epidemic period an approximately equal percentage of anti-A₂ and anti-B antibodies was found, while during the epidemic there was a percentage decline of positive A₂ reactions and a marked increase in the percentage of anti-B₂ antibodies. Includes 2 tables and 5 references, of which 3 Rumanian and 2 English-language. -- Manuscript submitted 4 June 1966.

1/1

VELEV, Al., inzh.; STEFANOV, Ian

For the improvement of the designs in machine construction.
Mashinostroene 10 no.10:40-41 0 '61.

STEFANOV, Ian.

On the improvement of operational planning in electric industries.
Mashinostroene 11 no.6:8-9 Je '62.

STEFANOV, Ian.

Improvement of the testing of series production in machine
construction. Mashinostroeni 12 no.1:43-44 Ja '63.

STREANOV, Iordan, 1920.

Use of waste for irrigation. Khidrolskh i melior 9 no. 58141-145
161

STEFANOV, IU.

Why the Class Reptillia Lost Its Domination in the Animal World at the End of the Mesozoic Era", p. 18. (PRIRODA I ZNANIE, Vol. 6, no. 10, Dec. 1953, Sofiya, Bulgaria).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 4, April 1954

STEFANOV, IU.

The bathonian in the section of the highway between Belogradchik and
Gara Oreshets, northwestern Bulgaria. Izv Geol inst BAN no.9:337-369
'61.

STEFANOV, IU.

Graptolites. Prir i znanie 16 no.6:13-17 Je'63

STEFANOV, I.
~~STEFANOV, I.~~

- [illegible]

NACHEV, Iv.; SAPUNOV, I.; STEFANOV, IU.

Stratigraphy and lithology of the Jurassic between villages
Gorno Ozirovo and Prevala, Northwestern Bulgaria. Trudove
vurkhu geol strat 5:99-146 '63.

BALABANOV, Iv., inzh.; STEFANOV, Iv., inzh.

A new series of aerial contractors of the Electric Equipment Plant of Plovdiv. Elektroenergia 14 no.10:16-19 0'63.

1. Elektroaparaturen zavod v Plovdiv.

STEFANOV, Iv., aka.

First Bulgarian conference on application of mathematics in economics.
Spisanie BAN 9 no.3:73-93 '64.

SOV/137-58-9-18690

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 78 (USSR)

AUTHORS: Stefanov, I.A., Strelets, M.N.

TITLE: The Quality of a Continually Cast Ingot (Kachestvo nepreryvnogo slitka)

PERIODICAL: Sb. nauchn. rabot stud. Donetsk. industr. in-t, 1957, Nr 2, pp 61-75

ABSTRACT: Analysis of statistical data on the functioning of the industrial continuous-steel-casting installation at the Krasnoye Sormovo Plant shows that rejects may constitute up to 4% of 175x420 mm billets. The main types of defects are pinch effects, transverse and longitudinal external cracks, variation of cross section from the rectangular, and internal cracks. The surface quality of the billets improves with increasing casting rate. The percentage of heats showing no defects rises from 50 to 75% when the casting rate is increased from 0.6 to 0.9 mm/min. (m/min is more likely. Transl. Ed. Note) As the temperature of the metal is increased from 1500-1520 to 1540-1560°C (by optical pyrometer), rejects increase from 3.2 to 6%, including a rise from 0 to 3% for external

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SOV/137-58-9-18690

The Quality of a Continually Cast Ingot

longitudinal cracks. Increase in rejects due to longitudinal external cracks from 2 to 8% was also observed when [S] rose from 0.025 to 0.045%. Internal cracks increased with pouring rate and metal temperature. Thus, when the casting rate was 0.5 m/min none were seen, while at a rate of 0.9 m/min the total length of all the cracks in a single cross section of the billet was 750 mm. As the temperature of the metal rose from 1505 to 1545°, the total length of all the cracks in a single section rose from 0 to 620 mm.

N.N.

1. Foundries--Performance 2. Steel--Casting 3. Data--Statistical analysis

Card 2/2